

## **15-YEAR UPDATE TO THE McHENRY COUNTY, ILLINOIS SOLID WASTE MANAGEMENT PLAN**

This addendum serves to amend and revise the McHenry County *Solid Waste Management Plan 10-Year Update* by providing the latest solid waste stream data and analysis available. Together, these documents constitute the *Solid Waste Management Plan 15-Year Update*, which has been prepared pursuant to and in compliance with the *Illinois Solid Waste Planning and Recycling Act* (415 ILCS 15/1 et seq.) requiring that “each county waste management plan shall be updated and reviewed every 5 years.”

In 1992, the McHenry County Board adopted the *Solid Waste Management Plan, 1990 – 2010, Phase I and Phase II*. The plan was updated in 1997 and again in 2002. This document is the third update to the plan.

The McHenry County Department of Planning and Development is the entity responsible for implementing the plan and preparing update recommendations on behalf of the county. The Solid Waste Coordinator is the contact staff person within the department.

The department continues to both gather and generate reference materials and informational handouts concerning source reduction, reuse, recycling, household hazardous waste, and composting as well as disposal alternatives for items that are not easily recycled or disposed of. These handouts will be updated and new materials will be prepared on an as needed basis. All materials have been and will continue to be made available to the public either in written form or via the Internet. General information is disseminated to the public through phone calls, e-mails, in-person inquiries, press releases, newspaper columns, and partnerships with other agencies and organizations.

The county continues to support established programs in the areas of solid waste management planning, education, and enforcement. Programs such as special collection events (e.g., household hazardous waste and used tire collections) will be pursued as funding allows. The Solid Waste Management Fund, which consisted of fees collected from previous landfill activities (now all closed) and grant money to design and begin implementation of the Plan was exhausted in 2000.

No significant federal or state legislation regarding the management of solid waste has been passed since the 10-Year Update was adopted. However, the McHenry County Board did revise the *Municipal Waste Hauler Licensing Ordinance* in 2002 to require haulers providing regularly scheduled residential collection service to offer, as an option, seasonal collection of leaves. In 2004, the board adopted a new *Pollution Control Facility Siting Ordinance* which establishes fees to cover “reasonable costs incurred by the county in the siting review process.” Also in 2004, the board adopted a *Generic Host Benefit Agreement*. This resolution relates to the siting of pollution control facilities as well.

No new landfill development is foreseen in the near future in McHenry County. The county continues to encourage the establishment of waste transfer stations within its borders to help reduce disposal costs and provide new disposal options for county residents. A transfer station in

the City of Crystal Lake is expected to begin operations in late 2008. The City of Woodstock is currently reviewing a proposal for a transfer station.

This plan update contains revised figures, tables, and data from the *10-Year Update*. It includes the latest population projections and area landfill capacities as well as revised waste generation and recycling projections.

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## REVISED TABLES AND FIGURES

### from the *Solid Waste Management Plan, 10-Year Update*

**Revised Table 2-1**  
**McHenry County Population Projections 2005 – 2030**

Year	2005	2010	2015	2020	2025	2030
<b>Population</b>	303,990	328,773	355,576	384,565	415,917	449,823

•2005 population data obtained from the US Census Bureau.

•2010 through 2025 population data interpolated assuming constant annual growth rate of 1.58%.

•2030 population data obtained from Northeastern Illinois Planning Commission / CMAP.

**Revise Table 2-4**  
**Remaining Capacities of Landfills Used by McHenry County Waste Haulers**

Landfill	Wastes accepted in 2005 (in millions of cubic yards)	Remaining capacity (in millions of cubic yards) as of 1/1/06	Scheduled year to close	Calculated years left
Countryside Landfill Grayslake, IL (Lake Co.)	1.7	19.8	2017	10
Onyx Zion Landfill Zion, IL (Lake Co.)	2.8	14	2011	4
Winnebago Landfill Rockford, IL (Winnebago Co.)	1.4	6.9	2011	4
Onyx Orchard Hills Landfill Davis Junction, IL (Ogle Co.)	5.1	100.6	2025	18
Mallard Ridge Landfill Delevan, WI (Walworth Co.)	0.3	8.6	2016	9
Pheasant Rund Landfill Bristol, WI (Kenosha Co.)	0.5	0.1	2007	0

• Illinois landfill figures obtained from "Nineteenth Annual Landfill Capacity Report – 2005" by the Illinois EPA.

• Wisconsin landfill figures obtained from "2005 Tonnage Report" by the Wisconsin DNR Waste and Materials Management Program.

**Revised Table 3-3  
Municipal Waste Generation Rates (2000 – 2030)**

Year	Population	Pounds Per Capita Per Day			
		Residential	Commercial/ Institutional	Construction/ Demolition	Total
2000	260,077	-	-	-	6.19
2001	268,208	3.86	1.96	0.43	6.25
2002	281,165	4.1	1.73	0.43	6.26
2003	286,091	3.5	1.99	0.49	6.07
2004	296,389	2.71	1.97	1.52	6.20
2005	303,990	3.32	2.11	0.56	5.97
2006	312,373	3.22	2.41	1.15	6.89
<b>Projected Population and Rates</b>					
2010	328,773	3.5	2.2	0.9	6.6
2015	355,576	3.5	2.4	1.0	7.0
2020	384,565	3.5	2.6	1.0	7.2
2025	415,917	3.5	2.8	1.1	7.5
2030	449,823	3.5	3.0	1.1	7.7

**Revised Table 3-5  
Diversion Rates and Goals 2000-2030**

Year	Recycled (%)			Overall Recycled (%)
	Residential	Commercial/Institutional	Construction/Demolition	
2000	46.9	19.5	37.6	36.1
2001	39.1	12.2	5.5	28.4
2002	41.2	17.8	27.3	33.8
2003	35.7	22.2	6.3	28.8
2004	45.0	21.3	47.6	38.5
2005	34.4	16.0	9.3	25.5
2006	26.2	13.7	13.1	20.7
<b>Diversion Goals 2010 – 2030</b>				
2010	30.0	20.0	15.0	25.0
2015	35.0	22.5	20.0	27.5
2020	40.0	25.0	22.5	30.0
2025	42.5	27.5	25.0	32.5
2030	45.0	30.0	27.5	35.0

Revised Figure 4

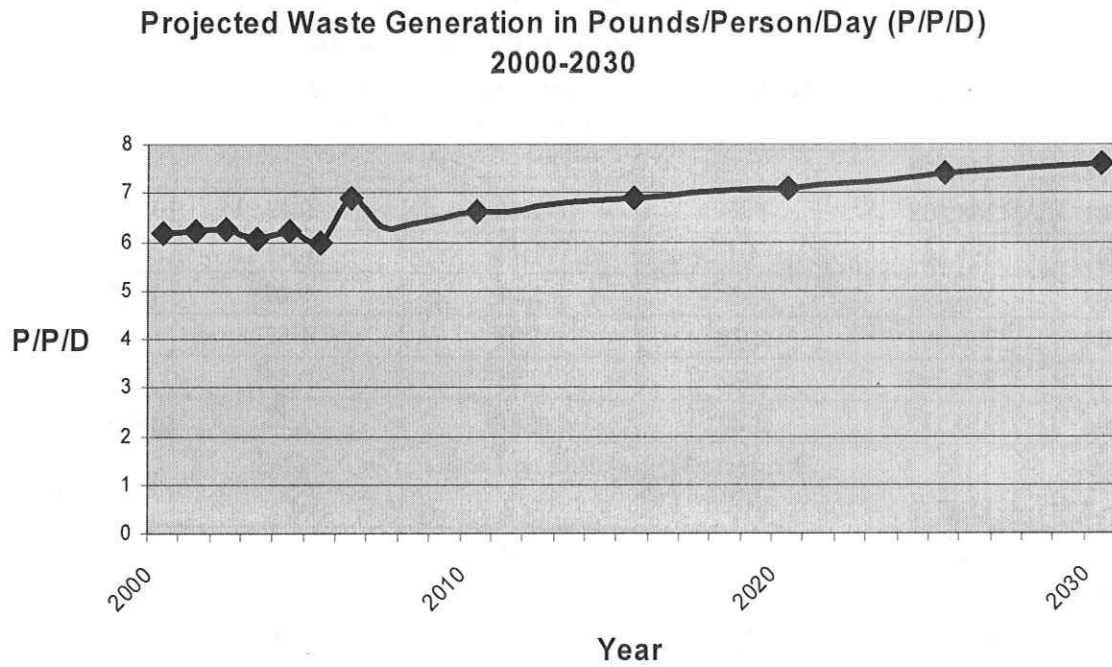
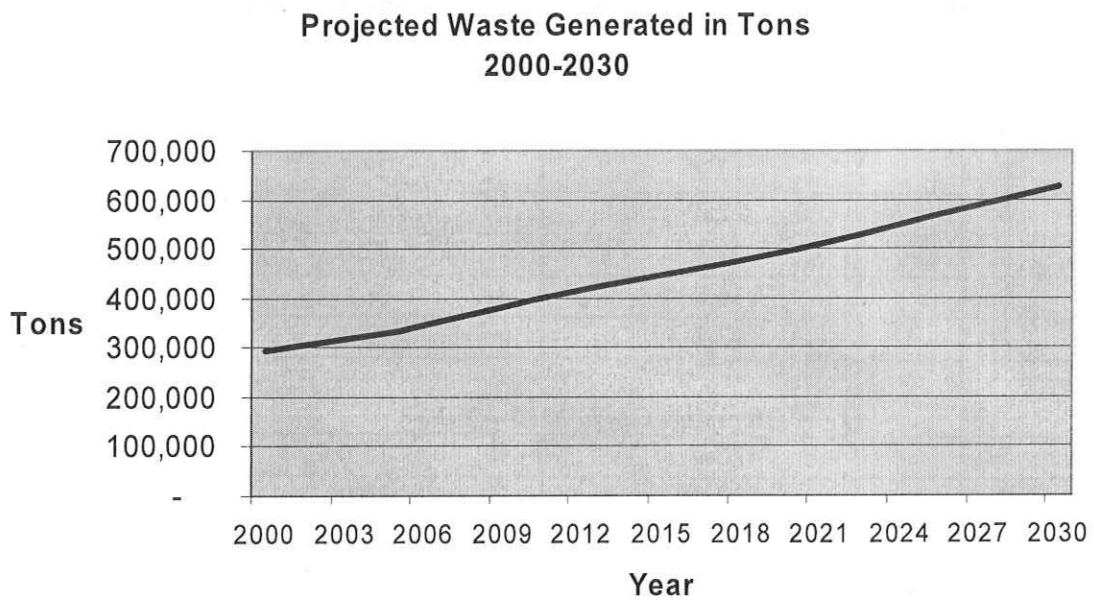


Figure 4-1



# McHENRY COUNTY

## 15-YEAR MUNICIPAL WASTE MANAGEMENT PLAN UPDATE

The Illinois Environmental Protection Agency has prepared this form to assist local governments with the five year updates of municipal waste (MW) plans. Although local governments may prepare and submit a more extensive document, the Agency will consider submission of this completed form to be the plan update required under the Solid Waste Planning and Recycling Act (SWPRA).

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### GENERAL INFORMATION

**Local Government:** McHenry County  
**Contact Person:** Darrell Moore  
**Address:** 2200 N. Seminary Ave.  
Woodstock, IL 60098  
**Phone:** 815-334-4560

**Plan Adoption Date:** August 20, 1991  
**Re-Adoption Date:** November 18, 1997  
**Re-Adoption Date:** September 3, 2002  
**Plan Update Due:** September 3, 2007

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### 1. Recommendation and Implementation Schedule Contained in the Adopted Plan

This information should be easily accessible in the plan's Executive Summary or Recommendations chapter. Briefly describe the recommendations and implementation schedule for each alternative in the adopted plan below.

#### a. Source Reduction

- (2002-1) Encourage programs that concentrate on waste reduction as the first priority in solid waste management efforts.  
*Timeframe: Ongoing.*
- (2002-2a) Promote the pay-as-you-throw system as the basis for residential waste collection in all municipalities within the county.  
*Timeframe: 2 years.*
- (2002-2b) Educate municipal officials on pay-as-you-throw techniques and provide other assistance as needed.  
*Timeframe: 6 months to 1 year.*
- (2002-3a) Educate commercial and industrial establishments, institutions, governmental agencies, and other non-residential entities on source reduction programs.  
*Timeframe: Ongoing.*
- (2002-3b) Continue to offer waste audits and assistance to these entities.  
*Timeframe: Ongoing.*

#### b. Recycling and Reuse

- (2002-4a) Promote and encourage businesses that process recycled material and those that manufacture products with post-consumer recycled materials.  
*Timeframe: 1 to 3 years.*
- (2002-4b) Coordinate the effort with municipalities and the McHenry County Economic Development Corporation.  
*Timeframe: 1 year.*
- (2002-5) Document the formation and function of the county employee recycling committee to be used as a model for other entities and institutions.  
*Timeframe: 6 months.*

- (2002-6) The County Employee Recycling Committee should continue to promote the 3 Rs within county departments using incentives such as recognition awards and tools such as the intranet.

*Timeframe: Ongoing.*

- (2002-7) Continue the Reduce, Reuse, and Recycle Awards Program.

*Timeframe: Ongoing.*

- (2002-8) Develop a Commercial Recycling Ordinance.

*Timeframe: 1 year.*

- (2002-9) Develop recycled product procurement policy for the county.

*Timeframe: 1 to 2 years.*

- (2002-10) Develop a recycling procedure for construction or demolition sites.

*Timeframe: 2 to 3 years.*

#### **c. Combustion for Energy Recovery**

No recommendations

#### **d. Combustion for Volume Reduction**

No recommendations

#### **e. Disposal in Landfills**

- (2002-11) Continue to implement source reduction, reuse, recycling, and composting programs to reduce dependence on landfilling

*Timeframe: Ongoing.*

- (2002-12) Secure landfill space to accept waste generated in McHenry County.

*Timeframe: 2 to 3 years.*

- (2002-13) Encourage the development of transfer stations in McHenry County.

*Timeframe: 1 to 2 years.*

- (2002-14) Review and update the McHenry County Regional Pollution Control Facility Siting Ordinance.

*Timeframe: 6 months to 1 year.*

- (2002-15) Review and update the Guidelines for a New Solid Waste Disposal Facility in McHenry County as deemed necessary.

*Timeframe: 6 months to 1 year.*

- (2002-16) Verify that any proposed landfills in McHenry County are, at a minimum, designed, operated, and monitored in compliance with the most current RCRA Subtitle D regulations and other regulations subsequently adopted by the State of Illinois.

*Timeframe: When necessary.*

## **2. Current Plan Implementation Efforts**

### **a. Which recommendations in the adopted plan have been implemented?**

**-Briefly describe which recommendations were not implemented and the reasons why these were not implemented.**

See following table

b. Which recommendations in the adopted plan have been implemented according to the plan's schedule.

-Briefly describe which recommendations were not implemented according to the adopted plan's schedule, and attach a revised implementation schedule.

See following table

10-Year Update Recommendations			Reasons not implemented or not on schedule	Revised schedule
Implemented	Not Implemented	On schedule?		
2002-1		yes		
2002-2a		yes		
2002-2b		yes		
2002-3a		yes		
2002-3b		yes		
2002-4a		yes		
2002-4b		yes		
2002-5		yes		
2002-6		yes		
2002-7		yes		
	2002-8	no	A commercial recycling ordinance was studied, but it was determined that the county did not have the legal authority to require recycling by businesses. According to an opinion written by an Assistant State's Attorney in January 2003, McHenry County (being a non-home rule county) can only exercise powers expressly delegated to it by the state legislature. The Solid Waste Planning and Recycling Act gives counties the right to require residents to recycle, but no statutory counterpart for the commercial sector exists.	Discontinue
	2002-9	no	The McHenry County Employee Recycling Committee is currently developing a "Green" Purchasing Policy.	1-2 years
	2002-10	no	Because any recycling procedure that may be developed cannot be enforced by ordinance (see #2002-8 above), little progress has been made on this recommendation. However, recent increases in the amounts of construction and demolition waste reported by waste haulers (specifically in 2006) signals that much improvement is still needed in the area of C/D recycling practices.	1-2 years
2002-11		yes		
	2002-12	no	There is currently no movement to secure landfill space. General attitudes in the county are against the siting of a new landfill here. Space in area landfills will continue to be monitored. If the time comes when key landfills begin to reach capacity and no new area landfills are proposed, then the county will examine the possibility of securing new landfill space.	When Necessary
2002-13		yes		
2002-14		no	The "McHenry County Regional Pollution Control Facility Siting Ordinance" was updated by the McHenry County Board in November 2004, making this implementation one year behind schedule.	
	2002-15	yes	No new landfills have been proposed in the county since the last update. Given the current attitude of McHenry County residents toward locating landfills here, it is unlikely that there will be one in the foreseeable future. As such, an update to the "Guidelines for a New Solid Waste Disposal Facility in McHenry County" has not been pursued.	When Necessary
	2002-16	yes	Scheduling for this recommendation is designated "as necessary." Since there have been no proposed landfills in the county, this recommendation has yet to be implemented.	When Necessary



### 3. Recycling Program Status

Because the Agency's annual landfill capacity report includes data on each adopted plan's recycling status, information on your recycling percentages is not being requested on this form. This will avoid duplication of efforts.

- a. **Has the program been implemented throughout the county or planning area?**  
Yes.
- b. **Has a recycling coordinator been designated to administer the program? If yes, when?**  
Yes, 1991.
- c. **Does the program provide for separate collection and composting of leaves?**  
Yes.
- d. **Does the recycling program provide for public education and notification to foster understanding of and encourage compliance with the program?**  
Yes.
- e. **Does the recycling program include provisions for compliance, including incentives and penalties? If yes, please describe.**  
Yes. Various levels of compliance are required amongst county residents, landlords, and waste hauling companies. Failure to comply can result in fines.
- f. **Does the program include provisions for recycling the collected materials, identifying potential markets for at least three materials, and promoting the use of products made from recovered or recycled materials among businesses, newspapers and local governments? If yes, please describe.**  
Yes. Provisions are included that require residents to separate recyclables from non-recyclables. Initially potential markets for at least three recyclables were researched. The current range of recyclables collected by area waste haulers has well surpassed this number. The promotion of recycled products is ongoing.
- g. **Provide any other pertinent details on the recycling program.**  
See attached *Solid Waste Stream Analysis 2006* for additional information.

### 4. Current Needs Assessment Information (optional)

Depending upon the available resources, updated waste generation data, current municipal waste recycling and disposal information and any other recent available data may be included; this information will not be required by the Agency.

- a. **MW generated per year:** 392,874 tons
- b. **MW generation rate:** 6.89 p/c/d
- c. **MW recycled per year:** 81,506 tons
- d. **MW incinerated per year:** n/a
- e. **MW landfilled per year:** 311,367 tons

**Time period for this information:** 2006

### 5. New Recommendations and Implementation Schedule

Due to political, fiscal, or technological changes, a local government may choose to recommend different waste management options for the review plan. It should be noted, however, that the recycling program requirements of the SWPRA must be followed. Discuss any new recommendations included in the revised plan, and the implementation schedule to be followed.

The table below lists 19 recommendations of the 15-year update. Many are recommendations from the 10-year update that have been, and continue to be, implemented. The timeframes of four have been adjusted while the rest are listed as "ongoing." Added to this plan's recommendations are four new items:



- (2007-1) Increase public awareness of recycling and conservation programs through the monthly "Recycling Round-Up" column in the Northwest Herald Newspaper.  
*For the past two years, the county has worked to educate the public on simple methods of recycling, reuse and conservation that can be applied in one's home or business. It has also been used as a means to notify the public of upcoming events such as Earth Day activities, Energy Fairs or Recycling Awards.*
- (2007-2) Develop a "green" policies initiative to be adopted by the McHenry County Board that calls for environmentally friendly practices to be employed when feasible by McHenry County Government.  
*The County Employee Recycling Committee is currently crafting a series of green policies with the intention of presenting them to the County Board for adoption. The policies will seek to guide county activities in the direction of increased conservation and recycling whenever opportunities present themselves.*
- (2007-7) Pursue recycling and special waste disposal programs such as Household Hazardous Waste Collections and Used Tire Collections.  
*Recycling and special waste programs, such as those sponsored by the State of Illinois Environmental Protection Agency, are highly valued by McHenry County citizens because they provide the opportunity for safe and environmentally responsible disposal without traveling excessive distances. Regional Household Hazardous Waste Collection facilities are one to one-and-a-half hours of travel time from most county residents. This discourages many from proper disposal of such items.*
- (2007-14) Create a forum for waste haulers to discuss solid waste issues and work toward greater accuracy and consistency in reporting annual hauling quantities.  
*McHenry County produces an annual Solid Waste Stream Analysis report that tracks waste generation, hauling and destinations. The bulk of the information in the report is supplied by waste haulers as a part of their annual licensing with the county. Due to fluctuations in reported totals from year to year among haulers, it has become clear that greater consistency is needed in reporting methods as well as a more standardized process for tracking waste hauled. By creating a forum for waste hauler discussions, these procedures may be established and implemented. Also, insight may be gained on possible changing trends in recycling and waste disposal by the public that may influence the annual numbers.*

15-Year Update Recommendations		Timeframe
	<b>Source Reduction</b>	
2007-1	Increase public awareness of recycling and conservation programs through the monthly "Recycling Round-Up" column in the Northwest Herald Newspaper.	ongoing
2007-2	Develop a "green" policies initiative to be adopted by the McHenry County Board that calls for environmentally friendly practices to be employed when feasible by McHenry County Government.	1 year
2007-3	Encourage programs that concentrate on waste reduction as the first priority in solid waste management efforts.	ongoing
2007-4	Promote the pay-as-you-throw system as the basis for residential waste collection in all municipalities within the county.	ongoing

2007-5	Educate municipal officials on pay-as-you-throw techniques and provide other assistance as needed.	ongoing
2007-6	Educate commercial and industrial establishments, institutions, governmental agencies, and other non-residential entities on source reduction programs.	ongoing
	<b>Recycling and Reuse</b>	
2007-7	Pursue recycling and special waste disposal programs such as Household Hazardous Waste Collections and Used Tire Collections.	ongoing
2007-8	Promote and encourage businesses that process recycled material and those that manufacture products with post-consumer recycled materials.	ongoing
2007-9	Coordinate efforts with municipalities and the McHenry County Economic Development Corporation.	ongoing
2007-10	The County Employee Recycling Committee should continue to promote the 3 Rs within county departments using incentives such as recognition awards and tools such as the intranet.	ongoing
2007-11	Continue the Reduce, Reuse, and Recycle Awards Program.	ongoing
2007-12	Develop recycled product procurement policy for the county.	1-2 years
2007-13	Develop a recycling procedure for construction or demolition sites.	1-2 years
	<b>Disposal in Landfills</b>	
2007-14	Create a forum for waste haulers to discuss solid waste issues and work toward greater accuracy and consistency in reporting annual hauling quantities.	1 year
2007-15	Continue to implement source reduction, reuse, recycling, and composting programs to reduce dependence on landfilling.	ongoing
2007-16	Secure landfill space to accept waste generated in McHenry County.	as needed
2007-17	Encourage the development of transfer stations in McHenry County.	ongoing
2007-18	Review and update the Guidelines for a New Solid Waste Disposal Facility in McHenry County as deemed necessary.	as needed
2007-19	Verify that any proposed landfills in McHenry County are, at a minimum, designed, operated, and monitored in compliance with the most current RCRA Subtitle D regulations and other regulations subsequently adopted by the State of Illinois.	as needed

*This document was produced by  
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